NASA/GSFC	MISSION OPERATIONS & DATA SYSTEMS DIRECTORATE (MO&DSD) CONFIGURATION CHANGE REQUEST (CCR)						
1. CCR NO.		2. DATE		3. PRIORITY	4. CHANGE LEVEL		
	CCR-530-ICD-0	August 20), 1997	☐ EMERGENCY ☐ URGENT ■ ROUTINE	□A □B □C ■D □E □F		
5. TITLE OF CHANGE SHO Subheaders 5 and 6 LI Expansion for SPTR and DAB, and Project Antenna							
6. DOCUMENT TITLE	ICD Between the	CD Between the NCC/FDF and the WSC					
DOCOMENT NO	530-ICD-NCC-FDF/WSC, Rev 5, 1 June 1997						
LIST ALL AFFECTED DOCUMENTS INCLUDING PROCEDURES							
	100 1210 101 10	2 00 1			(CONT ON ATTACHMENT)		
7. REASON FOR CHANGE To expand the LI Channel ID definition in SHO subheaders 5 and 6, including specific allocations for the							
South Pole TDRS Relay (SPTR) and the Demand Access Buffer (DAB), and Project Antenna. (CONT ON ATTACHMENT)							
8. DESCRIPTION OF CH	ANGE						
Pages 9-9, 9-11, AB-1, AB-4.							
9. IMPACT	CVCTEM			OPCANIZ	(CONT ON ATTACHMENT)		
YES NO SCHEDULE SCHEDULE FACILITIES TESTING TRAINING SPECIFICATIONS CONTRACTOR SUPPORT	SYSTEM YES NO RELIABILITY/MAIN ABILITY/SAFETY USER SERVICES/M RISK MANAGEMEN SECURITY USAF FUNDING RE TUSH POWER WEIGHT	SPACE STANDARD DOCUMENTS HARDW.	CS ENTATION ARE	ORGANIZA YES NO	YES NO MSFC CODE E JSC CODE T KSC OTHER		
10. COMMENTS STEI ANALYST HARDWARE ENGINEER OPERATIONS REPRESENTATIVE SYSTEMS ENGINEER I AND T MANAGER		SIGNATURE		DATE	CONCURRENCE:		
					CODE 285		
	_			<u> </u>	DATE		
11. BOARD ACTION APPROVED WITH DISAPPROVED DEFE	☐ WAIVER ☐ ☐ DEVIATION ☐		H DIRECTION	CONTRACT MOD PUBLISH DCN OTHER			
13. ORIGINATOR C. Corbett 505-527-702 SIGNATURE		CODE 530.4 DATE	-	GMENT MANAGER'S APPI	DATE		
15. CCB APPROVAL							
IO. OOD ALL KOTAL			16. CCI	RIMPLEMENTED			

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# of Bytes	Data Item				
	DIS Disable Time				
2	Year				
3	Day				
2	Hours				
2	Minutes				
2	Seconds				
1	Data Source (the following parameters in				
	Subheader No. 5 are for control of the designated Demultiplexer (DEMUX)).				
	1 = GSFC Demux				
	2 = JSC Demux				
	3 = Local Interface (LI)				
1	LI***				
•	0 = Spare (Unused)				
	1-4 = Nominal LI Channel ID				
	5-9 = Spare (Unused)				
	A-D= EDOS Ebnet Channel ID				
	E-F = Landsat-7 Channel ID				
	G = SPTR Channel ID				
	H = DAB Channel ID				
	I =Project Antenna Channel ID				
	$\underline{\mathbf{JG}}$ -X = Spare (Unused)				
	Y-Z=LI Test Channel ID				
	a-z = Spare (Unused)				
2	Port Address*				
	4 Hexadecimal characters				
1	Blocked/Unblocked Data*				
	1 = BLOCKED				
	2 = Unblocked				
1	Clamped/Unclamped Clock*				
	1 = Clamped				
	0 = Unclamped				
1	Clock Tracking* **				
	1 = Yes				
	0 = No				

^{*} Applicable to MDM only.

^{**} The clock tracking parameter for DEMUX configuration shall not be used for Shuttle Forward Data or for any End-to-End Test user return data.

^{***} A zero (0) shall be specified if the data source is not LI.

# of Bytes		Data Item				
2		Hours	S			
2		Minu	tes			
2	Seconds					
1	Data Destination			ion		
		1	=	LI		
		2	=	HDRM		
		3	=	MDM		
		4	=	Record Only		
		5	=	Television (TV) - Shuttle Only		
		6	=	Analog Data - Shuttle Only		
1	LI*	J		Thatog Butte Shuttle Shij		
1	LI	0	=	McMurdo TDRS Relay System (MTRS) High Rate Channel ID		
		1-4	=	Nominal Low Rate (LR) Channel ID 100 BPS \le Data Rate \le 10 MBPS (Low Rate)		
		5-8	=	Nominal High Rate (HR) Channel ID 10 MBPS < Data Rate \(\leq 300\) MBPS (High Rate)		
				If Data rate is \geq 150 MBPS, 5-8 specifies the service, i.e., no Q-Channel specified.		
		9	=	Spare (Unused)		
		A-F	=	EDOS EBnet Low Rate Channel ID		
		G-H	=	EDOS GSIF High Rate Channel ID		
		I-J	=	Landsat-7 Low Rate Channel ID		
		K	=	SPTR SSAR Low Rate Channel ID		
		L	=	SPTR KSAR Low Rate Channel ID		
		M-N	=	DAB Low Rate Channel ID		
		0	=	Project Antenna Low Rate Channel ID		
	$\underline{\mathbf{P}}\mathbf{K}\mathbf{-}\mathbf{R} =$			Spare (Unused)		
				LI Test Low Rate Channel ID		
		W-Z	=	LI Test High Rate Channel ID		
		a-z	=	Spare (Unused)		
1	HD	PRM				
		0	=	Not used		
		1-4	=	Input Port Number		

^{*} A zero (0) shall be specified if the data destination is not LI.

Abbreviations and Acronyms

ACS Attitude Control System

ADPE Automatic Data Processing Equipment

ASCII American Standard Code for Information Interchange

BED Block Error Detector

BER Bit Error Rate

BPSK Binary Phase Shift Keying

BR Bit Rate

CAB Circuit Assurance Block

CCB Configuration Control Board

CCR Configuration Change Request

CDCN Control and Display Computer Network

CMD Command

CTFS Common Time and Frequency System

<u>DAB</u> <u>Demand Access Buffer</u>

DCN Document Change Notice

DEMUX Demultiplexer

DG Data Group

DIS Data Interface System

DQM Data Quality Monitor

EBnet EOSDIS Backbone Network Communications

EDOS EOS Data and Operations System

EET End-to-End Test

EIRP Effective Isotropic Radiated Power

EOS Earth Observing System

EOSDIS EOS Data and Information System

EOT End of Track

ETRO Estimated Time of Return to Operation

EXEC Executive

ODM Operations Data Messages

OPM Operations Messages PDA Pin Diode Attenuator

PM Preventative Maintenance

PMMS Performance Measuring and Monitoring Subsystem

PTE PMMS Test Equipment Q Quadrature (channel)

QPSK Quadrature Phase Shift Keying **RCP** Right-Hand Circular Polarization

RF Radio Frequency SA Single Access

SDU Signal Distribution Unit

SGLT Space Ground Link Terminal

SHO Schedule Order

SIC Support Identification Code

SLR Service Level Report

SMA S-Band Multiple Access

SMAF S-Band Multiple Access Forward **SMAR** S-Band Multiple Access Return

SPTR South Pole TDRS Relay

SQPSK Staggered Quadrature Phase Shift Keying

SRDP Shuttle Return Data Processor

SSA S-Band Single Access

SSAF S-Band Single Access Forward **SSAR** S-Band Single Access Return

SSH S-Band Shuttle

SUE Shuttle-Unique Equipment

SUPIDEN Support Identifier

TDM Tracking Data Messages TDR Tracking and Data Relay S-Band Multiple Access refers to the MA services provided by TDRSs with ID's 1307, 1308 or 1309.